



[4910-13-P]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2012-1273; Directorate Identifier 2012-CE-045-AD]

RIN 2120-AA64

Airworthiness Directives; Cessna Aircraft Company Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: We propose to adopt a new airworthiness directive (AD) for certain Cessna Aircraft Company Models 172R and 172S airplanes. This proposed AD was prompted by reports of chafing of a new configuration of the fuel return line assembly, which was caused by the fuel return line assembly rubbing against the right steering tube assembly during rudder pedal actuation. This proposed AD would require you to install the forward and aft fuel return line support clamps and brackets; inspect for a minimum clearance between the fuel return line assembly and the steering tube assembly and clearance between the fuel return line assembly and the airplane structure; and, if any damage is found, replace the fuel return line assembly. We are proposing this AD to correct the unsafe condition on these products.

DATES: We must receive comments on this proposed AD by [INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE Federal Register].

ADDRESSES: You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:

- Federal eRulemaking Portal: Go to <http://www.regulations.gov>. Follow the instructions for submitting comments.
- Fax: 202-493-2251.

- Mail: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE., Washington, DC 20590.

- Hand Delivery: Deliver to Mail address above between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For service information identified in this proposed AD, contact Cessna Aircraft Company, Customer service, P.O. Box 7706, Wichita, KS 67277; telephone: (316) 517-5800; fax: (316) 517-7271; email: customer care@cessna.textron.com; Internet: <http://www.cessnasupport.com>. You may review copies of the referenced service information at the FAA, Small Airplane Directorate, 901 Locust, Kansas City, MO 64106. For information on the availability of this material at the FAA, call (816) 329-4148.

Examining the AD Docket

You may examine the AD docket on the Internet at <http://www.regulations.gov>; or in person at the Docket Management Facility between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this proposed AD, the regulatory evaluation, any comments received, and other information. The street address for the Docket Office (phone: 800-647-5527) is in the ADDRESSES section. Comments will be available in the AD docket shortly after receipt.

FOR FURTHER INFORMATION CONTACT: Jeff Janusz, Aerospace Engineer, Wichita Aircraft Certification Office, FAA, 1801 S. Airport Road, Room 100, Wichita, Kansas 67209; phone: (316) 946-4148; fax: (316) 946-4107; email: jeff.janusz@faa.gov.

SUPPLEMENTARY INFORMATION:

Comments Invited

We invite you to send any written relevant data, views, or arguments about this proposal. Send your comments to an address listed under the ADDRESSES section.

Include “Docket No. FAA-2012-1273; Directorate Identifier 2012-CE-045-AD” at the beginning of your comments. We specifically invite comments on the overall regulatory, economic, environmental, and energy aspects of this proposed AD. We will consider all comments received by the closing date and may amend this proposed AD because of those comments.

We will post all comments we receive, without change, to <http://www.regulations.gov>, including any personal information you provide. We will also post a report summarizing each substantive verbal contact we receive about this proposed AD.

Discussion

In January 2012, we issued AD 2012-02-02 (77 FR 6003, February 7, 2012), and in October 2012, we issued AD 2012-22-01 (77 FR 70114, November 23, 2012) for certain Cessna Aircraft Company (Cessna) Models 172R and 172S airplanes. These ADs required inspection of the fuel return line assembly for chafing; replacement of the fuel return line assembly if chafing is found; inspection of the clearance between the fuel return line assembly and both the right steering tube assembly and the airplane structure; and adjustment as necessary. The ADs resulted from reports of chafed fuel return line assemblies, which were caused by the fuel return line assembly rubbing against the right steering tube assembly during full rudder pedal actuation. We issued these ADs to detect and correct chafing of the fuel return line assembly, which could result in fuel leaking under the floor and fuel vapors entering the cabin. This condition could lead to fire under the floor or in the cabin area.

We were recently notified that the unsafe condition also applies to airplanes with different serial number effectivity.

Relevant Service Information

We reviewed Cessna Aircraft Company Service Bulletin SEB-28-01, dated September 21, 2012. The service information describes procedures for fuel return line inspection and modification.

FAA's Determination

We are proposing this AD because we evaluated all the relevant information and determined the unsafe condition described previously is likely to exist or develop in other products of the same type design.

Proposed AD Requirements

This proposed AD would require accomplishing the actions specified in the service information described previously.

Costs of Compliance

We estimate that this proposed AD affects 80 airplanes of U.S. registry.

We estimate the following costs to comply with this proposed AD:

Estimated costs				
Action	Labor cost	Parts cost	Cost per product	Cost on U.S. operators
Installation of brackets and clamps and inspection of the fuel return line assembly for chafing and clearance	2 work-hours X \$85 per hour = \$170	\$78	\$248	\$19,840

We estimate the following costs to do any necessary replacement that would be required based on the results of the proposed inspection. We have no way of determining the number of aircraft that might need this replacement:

On-condition costs

Action	Labor cost	Parts cost	Cost per product
Replacement of the fuel return line assembly and adjustment of the clearance between the fuel return line assembly and the steering tube assembly and the airplane structure	2 work-hours X \$85 per hour = \$170	\$53	\$223

According to the manufacturer, some of the costs of this proposed AD may be covered under warranty, thereby reducing the cost impact on affected individuals. We do not control warranty coverage for affected individuals. As a result, we have included all costs in our cost estimate.

Authority for this Rulemaking

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII: Aviation Programs, describes in more detail the scope of the Agency's authority.

We are issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701: "General requirements." Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

Regulatory Findings

We determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would not have a substantial direct

effect on the States, on the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify this proposed regulation:

- (1) Is not a “significant regulatory action” under Executive Order 12866,
- (2) Is not a “significant rule” under the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979),
- (3) Will not affect intrastate aviation in Alaska, and
- (4) Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

The Proposed Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 14 CFR part 39 as follows:

PART 39 - AIRWORTHINESS DIRECTIVES

- 1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

- 2. The FAA amends § 39.13 by adding the following new airworthiness directive (AD):

Cessna Aircraft Company: Docket No. FAA-2012-1273; Directorate Identifier 2012-CE-045-AD.

(a) Comments Due Date

We must receive comments by [INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE Federal Register].

(b) Affected ADs

None.

(c) Applicability

This AD applies to the following Cessna Aircraft Company (Cessna) airplanes, certificated in any category:

(1) Model 172R, serial numbers (S/N) 17281573 through 17281616;

and

(2) Model 172S, S/N 172S11074 through 172S11193.

(d) Subject

Joint Aircraft System Component (JASC)/Air Transport Association (ATA) of America Code 2820, Aircraft Fuel Distribution System.

(e) Unsafe Condition

This AD was prompted by reports of chafing of a new configuration of the fuel return line assembly, which was caused by the fuel return line assembly rubbing against the right steering tube assembly during rudder pedal actuation. We are issuing this AD to correct the unsafe condition on these products.

(f) Compliance

Comply with this AD within the compliance times specified, unless already done.

(g) Inspect the Fuel Return Line Assembly

At whichever of the following compliance times that occurs later, inspect the fuel return line assembly (Cessna part number (P/N) 0516031-1) for damage following Cessna Aircraft Company Service Bulletin SEB-28-01, dated September 21, 2012.

(1) At the next annual inspection after the effective date of this AD;

(2) Within the next 100 hours time-in-service (TIS) after the effective date of this AD; or

(3) Within the next 12 calendar months after the effective date of this AD.

(h) Replace the Fuel Return Line Assembly

If you find evidence of damage of the fuel return line assembly (Cessna P/N 0516031-1) as a result of the inspection required by paragraph (g) of this AD, before further flight, replace the fuel return line assembly (Cessna P/N 0516031-1) following Cessna Aircraft Company Service Bulletin SEB-28-01, dated September 21, 2012.

(i) Install the Fuel Return Line Assembly

If you find no evidence of damage of the fuel return line assembly (Cessna P/N 0516031-1) as a result of the inspection required by paragraph (g) of this AD, before further flight, reinstall the fuel return line assembly (Cessna P/N 0516031-1) following Cessna Aircraft Company Service Bulletin SEB-28-01, dated September 21, 2012.

(j) Install Forward and Aft Fuel Return Line Support Clamps and Brackets

After installing the fuel return line assembly as required by replacement in paragraph (h) of this AD or installation in paragraph (i) of this AD, before further flight, install the forward and aft fuel return line support clamps and brackets following Cessna Aircraft Company Service Bulletin SEB-28-01, dated September 21, 2012.

(k) Inspect for a Minimum Clearance Between Certain Parts

After the installation required by paragraph (j) of this AD, before further flight, inspect for a minimum clearance between the following parts throughout the range of copilot pedal travel. The requirements of this AD take precedence over the actions required in Cessna Aircraft Company Service Bulletin SEB-28-01, dated September 21, 2012:

(1) A minimum clearance of 0.5 inch between the fuel return line assembly (Cessna P/N 0516031-1) and the steering tube assembly (Cessna P/N MC0543022-2C); and

(2) Visible positive clearance between the fuel return line assembly (Cessna P/N 0516031-1) and the airplane structure.

(l) Adjust Clearance for Fuel Return Line Assembly

If you find any clearance less than the minimum clearance required by paragraph (k) of this AD, adjust to the minimum clearance required by paragraph (k) of this AD.

(m) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Wichita Aircraft Certification Office (ACO), FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the ACO, send it to the attention of the person identified in the Related Information section of this AD.

(2) Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

(n) Related Information

(1) For more information about this AD, contact Jeff Janusz, Aerospace Engineer, Wichita ACO, FAA, 1801 S. Airport Road, Room 100, Wichita, Kansas 67209; phone: (316) 946-4148; fax: (316) 946-4107; email: jeff.janusz@faa.gov.

(2) For service information identified in this AD, contact Cessna Aircraft Company, Customer service, P.O. Box 7706, Wichita, KS 67277; telephone: (316) 517-5800; fax: (316) 517-7271; customercare@cessna.textron.com; Internet: <http://www.cessnasupport.com>. You may review copies of the referenced service information at the FAA, Small Airplane Directorate, 901 Locust, Kansas City, MO

64106. For information on the availability of this material at the FAA, call (816)
329-4148.

Issued in Kansas City, Missouri, on November 29, 2012.

Earl Lawrence,
Manager, Small Airplane Directorate,
Aircraft Certification Service.

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